



Safety Data Sheet

Sparfire 31G

SPAR, Inc.
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Jacksonville, Alabama 36265

Telephone Number for Information: 256-435-9342
Emergency Telephone Number: 256-435-9342
Date: March 2016
Supersedes Date: July 2015

Section 1 - Product Information

Product Name: **Sparfire 31G**

Product Use: Refractory Material

Section 2 - Hazards Identification

 Possible Carcinogen	 Irritant (skin and eye)	 NFPA	 Safety Glasses Required	 Gloves Required	 Dust Mask Required	<table border="1"><tr><td>HEALTH</td><td>* 5</td></tr><tr><td>FLAMMABILITY</td><td>5</td></tr><tr><td>PHYSICAL HAZARD</td><td>5</td></tr><tr><td>PERSONAL PROTECTION</td><td>5</td></tr></table> GHS	HEALTH	* 5	FLAMMABILITY	5	PHYSICAL HAZARD	5	PERSONAL PROTECTION	5
HEALTH	* 5													
FLAMMABILITY	5													
PHYSICAL HAZARD	5													
PERSONAL PROTECTION	5													

Signal Word: **Danger**

Hazard Statement: H315: Possible skin irritant
H335: Possible respiratory irritant
H373: May cause damage to lung through prolonged, repeated inhalation
H320 Eye Irritant
H351 IARC lists crystalline silica as being suspected of causing cancer

NFPA ratings: Health: 1 Fire: 0 Reactivity: 0

Sensitization Hazard; None known Reproductive Toxicity: None known

Acute effects:	Skin contact: possible irritant	Mucous membranes: possible irritant
	Eye contact: irritant	
	Inhalation: possible irritant	

Chronic effects:	Product may contain crystalline silica. Prolonged and / or repeated inhalation of respirable crystalline silica dust, at levels above the stated PEL or TLV, may lead to the development of lung disease (silicosis). The International Agency for Research on Cancer (IARC) reports that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica (Group 1 Monograph V 68) based upon animal studies. Inhalation of dust containing crystalline silica may contribute to pre-existing pulmonary diseases such as asthma and lung disorders associated with smoking.
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California residents: This product contains one or more chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

Canadian Workplace Hazardous Materials Information System (WHMIS): Crystalline silica (quartz and cristoballite) is classified as Class D2A - Materials Causing Other Toxic Effects

Hazardous Materials Identification System (HMIS): Health: *1 Flammability: 0 Reactivity: 0

Product Name: **Sparfire 31G**

Page 1 of 4

Section 3 - Composition / Information on Ingredients

Hazardous Ingredients	CAS No.	%	ACGIH TLV	OSHA PEL	LD ₅₀	LC ₅₀
Crystalline Silica (Total)	N/A	< 6	N/A	N/A	N/A	N/A
Above includes: Quartz	14808-60-7		0.025 mg/m ³	See formula below	N/A	N/A
Cristobalite	14464-46-1		0.025 mg/m ³	See formula below	N/A	N/A
Tridymite	15468-32-3		0.025 mg/m ³	See formula below	N/A	N/A
Aluminum Oxide	1344-28-1	< 25	10 mg/m ³	15 mg/m ³ (total dust) 5 mg/m ³ (resp. dust)	N/A	N/A
Calcium Aluminate Cement	12042-68-1	< 12	10 mg/m ³	15 mg/m ³ (total dust) 5 mg/m ³ (resp. dust)	N/A	N/A

Threshold Limit Value for respirable dust containing crystalline silica:

OSHA PEL (respirable) for Quartz : 10 mg/m³ divided by (% Quartz + 2)

OSHA PEL (respirable) for Cristobalite : 5 mg/m³ divided by (% Cristobalite + 2)

OSHA PEL (respirable) for Tridymite : 5 mg/m³ divided by (% Tridymite + 2)

Section 4 - First Aid Measures

Inhalation: Remove affected person to dust free location. Consult physician if symptoms persists.

Skin contact: Wash affected area with soap and water.

Ingestion: Unlikely form of exposure. However, if ingestion occurs consult a physician if any adverse medical condition occurs.

Eye contact: Do not rub eyes. Flush with large amounts of water or eye wash saline solution for at least 15 minutes. Consult physician if irritation persists.

Section 5 - Fire Fighting Measures

The product is not combustible.

Flash Point: N/A

Flammable Limits: N/A

Autoignition Temperature: N/A

LEL: N/A

UEL: N/A

Hazardous Combustion Products: N/A

Burning Rate of Solid Material: N/A

Packaging and surrounding materials may be combustible.

Extinguishing Media: As appropriate for surrounding fire.

Flammability Classification (as defined by 29 CFR 1910.1200): Not Flammable

Fire Fighting Instructions: As appropriate for surrounding fire

Fire Fighting Equipment: Fire fighters should wear NIOSH approved, positive pressure, self contained breathing apparatus (SCBA) and full protection clothing (bunker gear) when fighting fires.

Section 6 - Accidental Release

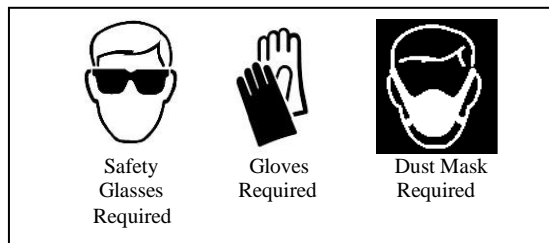
Follow routine housekeeping procedures. Spillage should be cleaned up by sweeping or using a vacuum. If sweeping, use a dust suppressing sweeping compound or take precautions to prevent airborne dust. If vacuuming, use HEPA filtered equipment only. Personnel should use personal protective equipment (dust masks, gloves, safety glasses, etc.) as outlined in Section 8. Do not sweep or flush spillage into a drain or waterway. Waste material (spillage) should be disposed of as outlined in Section 13.

Section 7 - Handling and Storage

Handling Procedures: Use adequate ventilation and dust collection devices to maintain airborne particulate concentrations at the minimum attainable level. Use personal protection equipment as outlined in Section 8.

Storage requirements: Store in the original, unopened packaging in a dry area.

Section 8 - Exposure Control and Personal Protection



Personal Protection Equipment:

Eyes: safety glasses or safety goggles In Canada, eye protection may be required to comply with Canadian Standards Association (CSA) Standard Z94.3-M1982

Skin: full body clothing, gloves and head covering In Canada, protective clothing may be required to comply with ACGIH 1991 guidelines

Respiratory: wear a NIOSH approved particulate respirator (42 CFR 84) in compliance with OSHA Standard 29 CFR 1910.134 and 29 CFR 1926.103. In Canada, respirator must comply with Canadian Standards Association (CSA) Standard Z94.4-93

If clothing becomes contaminated, launder before next use. Use good personal hygiene practices. Wash hands thoroughly with soap and water before eating or drinking.

Engineering measures: Use adequate ventilation and dust collection devices to maintain airborne particulate concentrations at the minimum attainable level.

Leak and Spill Procedure: Follow procedures outlined in Section 6.

Section 9 - Physical and Chemical Properties

Physical State: solid	Odor: Earthy Odor	Odor Threshold (ppm): N/A
Appearance: tan to gray, granular mixture		Specific Gravity: 1.3 - 2.7
Vapor Density: N/A	Vapor Pressure: N/A	Evaporation Rate: N/A
Boiling Point (°C): N/A	Freezing Point (°C): N/A	pH (10% solids): 7 - 10
Coefficient of Water/Oil Distribution: N/A		

Section 10 - Stability and Reactivity

Chemically Stable? : yes	Conditions to avoid: none	Incompatible Materials: none
Hazardous decomposition products: none		Hazardous Combustion Products: none
Hazardous Polymerization: none		Reactivity: hydraulic setting

Section 11 - Toxicological Information

Toxicology: Dust from this product may contain respirable crystalline silica in one or more of the following forms: cristobalite, tridymite, quartz. Repeated and prolonged (long term) inhalation of airborne dust particles containing crystalline silica may cause lung disease (silicosis). Inhalation of dust containing crystalline silica may contribute to pre-existing pulmonary diseases such as asthma and lung disorders associated with smoking. IARC studies have shown sufficient evidence from animal studies to categorize crystalline silica as a group 1 carcinogen (Group 1 Monograph V 68).

Product Name: **Sparfire 31G**

Section 12 - Ecological Information

No information available. However, material is inert and stable. No adverse effects are anticipated.

Section 13 - Disposal Information

This product, as supplied by SPAR, Inc., is not a hazardous waste under Federal regulations (40 CFR 261). Any use, processing, or exposure to chemical agents may alter the product from its as purchased classification and may change its disposal requirements. Under Federal regulations, it is the waste generator's responsibility to characterize the material to determine if it is a hazardous waste. Check local, state, regional, provincial regulations in order to insure compliance with all applicable disposal requirements.

Section 14 - Transport Information

Special shipping information: Ship in the original, unopened packaging in such a manner as to keep the product dry.

US Department of Transportation (DOT): Not regulated

Canadian TDG Hazard Class and PIN: Not regulated

Not classified as dangerous goods under ADR (road), RID (train),

IMDG (ship) or IATA (air)

Section 15 - Regulatory Information

Known regulations covering this material. Other regulations may or may not apply.

United States

SARA Title III: Section 302/304 – no
Section 311/312 – yes
Section 313 – no

TSCA: yes (all components listed)

Hazardous Materials Identification System (HMIS):

Health: *1 Flammability: 0 Reactivity: 0

NFPA ratings: Health: 1 Fire: 0 Reactivity: 0

California Proposition 65 – crystalline silica

Canada

Domestic Substance List (DSL): yes
(all components listed)

WHMIS Class: D2A

Europe

Regulations that may regulate this material include:

Council Directive 89/391/EEC (12 June 1989)

(Official Journal of European Community L 183 of 29 June 1989, p.1)

Council Directive 98/24/EC (7 April 1998)

(Official Journal of European Community L 131 of 5 May 1998, p.11)

Section 16 - Other Information

Prepared by: SPAR, Inc. Research and Development Department

Telephone: 336-882-7294

Preparation date: March 2016

The information presented in this document is given in good faith and is believed to be accurate based upon the current base of knowledge. This document does not establish any form of legal contract or warranty either expressed or implied; nor does it establish a guarantee for any specific product features.

Product Name: **Sparfire 31G**

Page 4 of 4